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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	25	703/8.ccls. and @pd>="20081201"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 15:26
L2	49	(280/5.5\$).ccls. and @pd>="20081201"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 15:34
L3	98	(stewart near platform) and spring	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 15:51
L4	4	(coil adj spring) near (design or specification) and (stewart adj platform)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 16:16
L5	2	((coil adj spring) near (design or specification))and (force near sensor)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 16:17

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L10	0	(parallel adj mechanism) and (spring near substitut\$4)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 16:34
L11	2	(parallel adj mechanism) and (spring near alternative)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 16:35
L12	87	(parallel adj mechanism) and (suspension)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 16:35

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L4	222	(coil adj spring) near design	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/06 11:04
L7	33	spring same design and (testbench or (test adj bench))	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/06 11:21
L8	146	spring same design and (load near test)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/06 11:24

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S41	323	suspension and (vehicle or automobile) and (six adj degree)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 18:34

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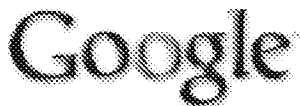
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L14	33	(griffis.in. or duffy.in.) and (coil adj spring)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 16:55
L15	51	(griffis.in. or duffy.in.) and (spring same design)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 16:57
L16	35	(griffis.in. or duffy.in.) and platform and spring	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/05/05 16:58

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L6	4	((coil adj spring) and (six adj degree)).clm.	US-PGPUB	OR	ON	2009/05/05 16:20
L7	4	((coil adj spring) and six and suspension).clm.	US-PGPUB	OR	ON	2009/05/05 16:22

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... Figure 5. One-degree-of-freedom link supported by a linear ... and their initial force requirements are less than coil springs). ... p. 186-7. 6. James WV, Orr JF. ...

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N Erverdi, O Koyuturk, N Kucukkeles - Journal of Orthodontics, 1997 - Br Orthodontic Soc

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[GEO 600 triple pendulum suspension system: Seismic isolation and control](#)

MV Plissi, CI Torrie, ME Husman, NA Robertson, KA ... - Review of Scientific Instruments, 2000 - link.aip.org

... a gain factor) for all six controllers is ... is additional actuation providing three degrees of freedom ... intermediate level the feedback uses coil-magnet motors ...

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[An efficient numerical method for predicting the natural frequencies of cylindrical helical springs](#)

V Yildirim - International Journal of Mechanical Sciences, 1999 - Elsevier

... include the results that can be used directly in the **spring design** [4—30]. ... a typical unrestrained nodal point on the system, there are **six degrees** of freedom ...

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Multistage active vibration isolation system

SJ Richman, JA Giaime, DB Newell, RT Stebbins, PL ... - Review of Scientific Instruments, 1998 - link.aip.org

... designed to provide 40 dB of isolation in all **six** rigid-body **degrees** of freedom. ... plate and is suspended beneath the first by stainless steel **coil springs**. ...

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N Hu - International Journal for Numerical Methods in Engineering, 1992 - interscience.wiley.com

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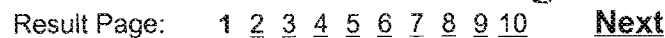
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R Limpert - 1978 - Michie

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Y Zhang, Q Liu - Proceedings of the Institution of Mechanical Engineers, Part ..., 2002 - Prof Eng Publishing

... P load effect on the composite **spring** ... reliability-based **design** is based on such probabilistic material strength ... are the main objectives of **vehicle design**. ...

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Supplier switching costs and vertical integration in the automobile industry

K Monteverde, DJ Teece - The Bell Journal of Economics, 1982 - jstor.org

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JL Harned, LE Johnston, G Scharpf, Society of ... - 1969 - Society of Automotive Engineers

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T Hirata, R Takahashi - Decision and Control, 1993., Proceedings of the 32nd IEEE ..., 1993 - ieeexplore.ieee.org

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... $K_{\text{t}} = K_{\text{sd}} = K_{\text{r}} = 38000 \text{ N/m}$ tire **spring** stiffness, K_{r} ... mass, $U = 1.4 \text{ m}$ distance between rear of **vehicle** and CG ... 3 Active Control System **Design** In this section, we ...

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J Fenton - 1998 - Professional Engineering Publishing

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Air suspension dimensionless analysis and design procedure

G Quaglia, M Sorli - **Vehicle System Dynamics**, 2001 - informaworld.com

... a specific range for any given type of **spring**. ... will be subjected is essential for optimal air **suspension design**. ... Hz, which depend on road type and **vehicle** speed ...

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Fuzzy logic controller for a vehicle active suspension system

SJ Huang, HC Chao - **Proceedings of the Institution of Mechanical Engineers, Part ...**, 2000 - [journals.pepublishing.com](#)

... Hence, the **design** of an appropriate **spring** constant and ... system is always an important research topic for achieving the desired **vehicle** ride quality. ...

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Active vehicle suspension control using intelligent feedbacklinearization

GD Buckner, KT Schuetze, JH Beno - American Control Conference, 2000. Proceedings of the 2000, 2000 - ieeexplore.ieee.org

... installed in parallel with a soft **spring** for static ... invariant **suspension** models for controller **design** and simulated ... subject to change during a **vehicle's** life ...

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Model reference adaptive control for vehicle active suspensionsystems

M Sunwoo, KC Cheok, NJ Huang - IEEE Transactions on Industrial Electronics, 1991 - ieeexplore.ieee.org

... based on the optimal control **design** method [4 ... b, are the coefficients of linearized **spring** and damping ... **VEHICLE SUSPENSION DATA AND SELECTION OF REFERENCE MODEL A ...**

Cited by 30 - Related articles - Web Search - Library Search - All 4 versions

Key authors: D Karnopp - A Thompson - R Sharp - D Crolla - K Waldron



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MBS approach to generate equations of motions for HiL-simulations in **vehicle** dynamics

W Rulka, E Pankiewicz - Multibody System Dynamics, 2005 - Springer

... is being applied today for the **design** of the ... linked together by non-linear spatial **spring** damper elements. ... is subdivided into the modules: **vehicle** MBS, which ...

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Virtual Proving Ground-an integrated technology for full **vehicle** analysis and simulation

Y Zhang, A Tang, T Palmer, C Hazard - International Journal of **Vehicle Design**, 1999 - Inderscience

... full **vehicle** system models from **vehicle design** data, and ... of linear and nonlinear **springs**, dampers, bushings ... integrated technology for full **vehicle** analysis 455 ...

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Vehicle load monitoring system

AJ Miller - US Patent 4,456,084, 1984 - Google Patents

... 1 and 2> the system includes a brakes, **springs**, tires and the like ... **design** tolerances of these parts. ... An overload commercial **vehicle SUSPension** of the **vehicle**. ...

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Minimization of pedaling induced energy losses in off-road bicycle rear **suspension** systems

EL Wang, ML Hull - **Vehicle** System Dynamics, 1997 - informaworld.com

... syst1:m model (Wang and Hull, **Vehicle** System Dynamics ... single pivot point type **design** (swing arm) with a ... The **spring** and damping functions and parameter values ...

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... Life Prediction and Experimental Verification for an Automotive **Suspension** Component Using Dynamic ...

WK Baek, RI Stephens - Advances in Fatigue Life Predictive Techniques - books.google.com

... called DADS (Dynamic Analysis and **Design** System)[. ?] The ... stiffness 9547 N/m Rear **Suspension: Spring** rate 369 ... 1—Schematic drawing of the **vehicle** dynamic model ...

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Impact of roughness-induced dynamic load on flexible pavement performance

AT Papagiannakis, RCG Haas, JHF Woodrooffe, PA ... - Surface Characteristics of Roadways: International Research ..., 1990 - books.google.com

... 3. For the leaf-**spring suspension**, the dominant frequency of ... at the International Symposium on Heavy **Vehicle** Weights and ... 9] Predictive **Design** Procedures, VESYS ...

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Vehicle System Dynamics, 25 (1996), pp ... was modeled as a single pivot point type **design** with a ... extension damping constant FL: Fork lockout kl: Rear **spring** rate C ...

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... inertias; – (non-linear) **springs**; – (non-linear ... requirements, integration between

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Use of force and attitude sensors for locomotion of a legged vehicle over irregular terrain

CA Klein, KW Olson, DR Pugh - The International Journal of Robotics Research, 1983 - ijr.sagepub.com
 ... Hexapod). Recently, the **vehicle** has been modified so that it can ... and active compliance is used to provide a **suspension** system by ...

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Evaluation of shock absorber models

S Duym, R Stiens, K Reybrouck - **Vehicle** System Dynamics, 1997 - informaworld.com
Vehicle System Dynamics, 27 (1997) pp. ... of the most complex parts of the **suspension** to model ... **spring**-dashpot models proves the relevance of the alternative model ...

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Vehicle-generated road damage: a review

D Cebon - **Vehicle** system dynamics, 1989 - informaworld.com
 ... widespread use of such models for pavement **design** and analysis ... noted that for triaxle groups with leaf **spring** suspensions, the ... **VEHICLE-GENERATED ROAD DAMAGE** ...

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DM Gorinevsky, AY Shneider - The international journal of robotics research, 1990 - ijr.sagepub.com
 ... The control system of the hexapod walking **vehicle**, designed at the Institute for Mechanics at Moscow State University and at the Institute for Problems of ...

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Experimental characterization of damping force in shock absorbers with constant velocity excitation

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 ... diagrams, used mainly in the motor **vehicle** sector, and ... The shock absorber for motorcycle rear **suspension** has ... only its damping force, the **spring** was removed. ...

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XJ Zheng, JJ Wu, YH Zhou - Journal of sound and Vibration, 2000 - Elsevier
 ... have to be considered in a concept **design** of maglev **vehicles** in order to guarantee the safety and ... Restoring **spring** forces ... Equations of motions of Maglev **vehicle** ...

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Validated crash simulation of the most common guardrail system in the USA

A Tabiei, J Wu - International Journal of Crashworthiness, 2000 - informaworld.com
 ... to an optimisation process of the **design** of the ... The simple linear **spring** relation

was observed to be ... the detailed modelling of the **vehicle suspension** system. ...

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A practical model for bushing components for **vehicle** dynamic analysis

WS Yoo, WK Baek, JH Sohn - International Journal of **Vehicle Design**, 2004 - Inderscience

... translational **spring**-dampers and three rotational **spring**-dampers ... would be useful

for the practical **design** and analysis of the **vehicle suspension** system ...

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... tyre stiffness k_s leaf **spring** 'envelope' stiffness ... scale truck components, so the

design of the ... sprung four-wheel drive 'recreational' **vehicle** (all **suspension** ...

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Key authors: [D Cebon](#) - [D Gorinevsky](#) - [C Klein](#) - [S Duym](#) - [A Shneider](#)

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Effects of vehicle suspension design on dynamics of highway bridges

MF Green, D Cebon, DJ Cole - Journal of Structural Engineering, 1995 - link.aip.org

Effects of **Vehicle Suspension Design** on Dynamics of Highway Bridges. ... leaf-spring and air-spring suspensions on ... by modeling the bridge and **vehicle** separately and ...

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A review of modelling methods for railway vehicle suspension components

BM Eickhoff, JR Evans, AJ Minnis - **Vehicle System Dynamics**, 1995 - informaworld.com

... The simplest type of friction **suspension** is a ... of the wagon and from **vehicle** to **vehicle** depending on ... is obtained from the Brunninghaus **spring design** where all ...

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The effect of posture and seat suspension design on discomfort and back muscle fatigue during ...

D Wilder, ML Magnusson, J Fenwick, M Pope - Applied Ergonomics, 1994 - cat.inist.fr

... by the posture of the subject in the **vehicle**. ... its **suspension** is superior to the standard **spring** seat in ... 2×3 (2 seats \times 3 postures) repeated measures **design**. ...

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... $K_{\text{t}} = K_{\text{sd}} = K_{\text{r}} = 38000 \text{ N/m}$ tire **spring** stiffness, K_{r} ... mass, $U = 1.4 \text{ m}$ distance between rear of **vehicle** and CG ... 3 Active Control System **Design** In this section, we ...

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P Gregorio, M Ahmadi, M Buehler, SB **Design**, Q ... - IEEE Transactions on Systems, Man, and Cybernetics, Part B, 1997 - ieeexplore.ieee.org

... can be provided by the natural oscillation of a **spring**-mass system ... [16] KJ Waldron et al., "Configuration **design** of the adaptive **suspension vehicle**," Int ...

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Sky-hook suspension control of a quadruped walking vehicle

K Yoneda, H Iiyama, S Hirose - 1994 IEEE International Conference on Robotics and ..., 1994 - ieeexplore.ieee.org

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 ... solid line exhibits the active control **spring** mass acceleration ... tuneable fuzzy Logic
 controller for **vehicle** active **suspension** ... SW Kim and JJ Lee, "**Design** of a ...
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I Fialho, GJ Balas - IEEE transactions on control systems technology, 2002 - conservancy.umn.edu
... are integrated to achieve a **vehicle-level** gain ... The **design** of road adaptive sus- pension
controllers is ... The **spring**, , and damper, , represent a passive **spring** ...
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... more tractable linear **design** techniques can be used. ... Next, the experimental **vehicle** response data was sub ... was relatively small ($\pm 0.03\text{m}$), the **spring** rate was ...
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[Direct kinematic solution of a Stewart platform](#)

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... The Stewart platform [2], shown in Fig. 2, is a well known, fully **parallel mechanism** with six controlled degrees of free- dom. Each of the limbs AA *,

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[Elastokinematic Analysis of Five-rod Suspension with Flexible Joints, Including Effects of Shock ...](#)

J Knapczyk, S Dzierzek - Vehicle System Dynamics, 1998 - informaworld.com

... development of appropriate tyre, **suspension** and **vehicle** models pelmitting ... Five-rod **suspension** is considered as a 5(SS) platform-type in-**parallel mechanism** (fig ...

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... P-selectin in the presence of **vehicle** (DMSO), rapamycin ... when compared with cells incubated in **suspension**. ... A **parallel mechanism** that controls eIF4E activity is ...

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M Jamshidi - 1992 - American Society of Mechanical Engineers

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[Innovative concept for wheeled locomotion in rough terrain](#)

R Siegwart, T Estier, Y Crausaz, B Merminod, M ... - Intelligent Autonomous Systems 6, 2000 - books.google.com

... 7), the **vehicle** has one wheel mounted on ... has two functions: its spring **suspension** guarantees optimal ... any time and its particular **parallel mechanism** produce an ...

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[Part incorporating system](#)

S Sakamoto, Y Munenaga - US Patent 4,774,757, 1988 - Google Patents

... 21, a support table 23 mounted on **suspension** assembly B ... 24, 25 and 26 placed one on **vehicle** frame A ... 23 to extend in a direction **parallel mechanism** 34 which is ...

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KH Hunt, AE Samuel, PR McAree - The International Journal of Robotics Research, 1991 - [ijr.sagepub.com](#)
... can regard the Adaptive **Suspension Vehicle** (ASV) Hexapod there described as an inverted multi-finger multi-freedom gripper grasping the earth's surface. ...
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... et al developed a hybrid type **parallel mechanism** crane with ... As a wire **suspension** system, a crane type robot ... T.Fukuda et al., "Manipulator/**Vehicle** System for ...
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CD Zhang, SM Song - Journal of Robotic Systems, 1992 - [interscience.wiley.com](#)
... the position of the end- effector of a manipulator or the **vehicle** body a ... Behi3 studied the kinematics of a 6 degree of freedom (dof) 3-PRPS **parallel mechanism**. ...
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System having input output pins shifting between programming mode and normal mode to program memory ...

R Allen, S Mitra, R Drake - US Patent 5,473,758, 1995 - Google Patents

... antilock braking systems, **automobile suspension** control for ... by the device user (the **automobile** manufacturer), a ... family, employ a **parallel mechanism** only, which ...

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... the position of the end- effector of a manipulator or the vehicle body a ... Behi3 studied the kinematics of a 6 degree of freedom (dof) 3-PRPS **parallel mechanism**. ...

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... 7), the vehicle has one wheel mounted on ... has two functions: its spring **suspension** guarantees optimal ... any time and its particular **parallel mechanism** produce an ...

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... can regard the Adaptive **Suspension** Vehicle (ASV) Hexapod there described as an inverted multi-finger multi-freedom gripper grasping the earth's surface. ...

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A robotically assisted munition loading system

CC Nguyen, ZL Zhou, MD Bryfogle - Journal of Robotic Systems, 1995 - interscience.wiley.com

... hooks with respect to the **suspension** lugs must ... a modified version of a **parallel mechanism** proposed by ... Number BA40105, manufactured by Lucas **Automotive** Sensors. ...

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"parallel mechanism" spring

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The bounds and realization of spatial stiffnesses achieved with simple springs connected in parallel

S Huang, JM Schimmels - IEEE Transactions on Robotics and Automation, 1998 - [ieeexplore.ieee.org](#)

... argument) that general spatial stiffness can be equivalently modeled with a Stewart

Platform-type **parallel mechanism** consisting of passive line **springs**. ...

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... approach for the static balancing of planar linkages using **springs** has been ... As mentioned above, a statically balanced **parallel mechanism** is one in which the ...

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Virtual model control of a bipedal walking robot- ► [mit.edu](#) [PDF]

J Pratt, P Dilworth, G Pratt - 1997 IEEE International Conference on Robotics and ..., 1997 - [ieeexplore.ieee.org](#)

... with Virtual Model Control, we usually talk in terms of **spring** set points ... Here

we examine a **parallel mechanism** representing a simple, 2-D, bipedal robot ...

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Static balancing of 3-DOF planar parallel mechanisms

T Laliberte, CM Gosselin, M Jean - IEEE/ASME transactions on mechatronics, 1999 - [ieeexplore.ieee.org](#)

... B. Mechanism with Parallelograms The planar 3-DOF **parallel mechanism** with parallelograms and with **springs** is shown in Fig. 4. This ...

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JW Jeong, SH Kim, YK Kwak - Mechanism and Machine Theory, 1999 - [dspace.kaist.ac.kr](#)

... 2.2. Forward kinematics The forward kinematics of a **parallel mechanism**

is more difficult to solve than the inverse kinematics. In ...

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D Constantinescu, I Chau, SP DiMaio, L Filipozzi, ... - IEEE International Conference on Robotics and Automation, 2000 - [ece.ubc.ca](#)

... present a system for rendering planar rigid-body motion by means of a redundant

parallel mechanism. ... 2), p is the strain of the bond, K_r is the **spring** rate, a ...

Cited by 11 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - All 11 versions

[PDF] ► Series elastic actuators

GA Pratt, MM Williamson - Proceedings of the IEEE/RSJ International Conference on ..., 1995 - [cs.cmu.edu](#)

... Minoru, and Imamura, Yuichi, "An Instrumented Compliant Wrist Using a **Parallel Mechanism**", Japan/USA ... J. of Robotics Research, V6, N1, **Spring** 1987 pp 3-14. ...

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Static balancing of spatial parallel platform mechanisms—revisited

I Ebert-Uphoff, CM Gosselin, T Laliberté - Journal of Mechanical Design, 2000 - [link.aip.org](#)

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D Zhang, CM Gosselin - Journal of Mechanical Design, 2001 - link.aip.org

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L Hendricks - US Patent 3,777,374, 1973 - Google Patents

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"parallel mechanism" spring

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PLEASURE SHOE

L Hendricks - US Patent 3,777,374, 1973 - Google Patents

... invention shown installed 35 Pression coil sPrin8 therebetween, said **coil spring** in a ... with opposite sides of said square turn being **parallel mechanism** 11 that ...

Cited by 12 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Work machine with operator's cabin

T Higuchi, K Miyaki - US Patent 5,984,036, 1999 - Google Patents

... to the opera- tor's cab by means of the **parallel mechanism** and torsion ... anti- oil damper 25 which is positioned centrally of the **coil spring** vibrational mounts ...

Cited by 4 - [Related articles](#) - [Web Search](#) - [All 6 versions](#)

PARALLEL MECHANISM

JO Lenz - US Patent 3,640,231, 1972 - Google Patents

... presented to tool 18, and by moving the **parallel mechanism** transversely ... thereon. Abutment member 62 abuts the end of a **coil spring** member ...

Cited by 1 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

COIN-OPERATED DISPENSING DEVICE

US Patent 3,565,228, 1971 - Google Patents

... The support brackets 20 have mutually **parallel mechanism**, the various parts of the housing 12 ... The solenoid 134 is sche- of a **coil spring** 114 is connected to the ...

Cited by 1 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Analysis of a planar 3 degree-of-freedom adjustable compliance mechanism

WK Kim, DG Kim, BJ Yi - Journal of Mechanical Science and Technology, 1996 - Springer

... 2. Compliance Characteristics of a Planar 3-DOF **Parallel Mechanism** ... To obtain a passive compliance effect, a passive **coil spring**, a rubber, a joint member with ...

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Rear hub drive engagement mechanism

CD King - US Patent 5,964,332, 1999 - Google Patents

... and 11 do not currently meet, axial force from the **coil spring** 14 will ... engagement 45 freewheeling direction (the direction in which the **parallel mechanism** works ...

[Web Search](#) - [All 2 versions](#)

Embroidery sewing machine

H Sakakibara, K Shinoda, Y Murata - US Patent 5,383,412, 1995 - Google Patents

Page 1. US005383412A United States Patent Sakakibara et al. [ii] Patent

Number: [45] Date of Patent: [54] EMBROIDERYSEWINGMACHINE ...

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Voting machine with band interlock

CM O'neal - US Patent 3,934,794, 1976 - Google Patents

... An interlocking band extends **parallel mechanism** was added to automatically perform many with the voting keys between each of the first and sec- functions, such ...

[Related articles](#) - [Web Search](#) - [All 2 versions](#)


Fruit treating apparatus

S Yasuhiro, S Toshio, K Shuichi, T Toshio, O Sadao ... - US Patent 4,013,001, 1977 - Google Patents
Page 1. United States Patent [in 4,013,001 [19] Yasuhiro et al. [45] Mar.
22, 1977 [54] FRUIT TREATING APPARATUS [75] Inventors: Sato ...
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Actuator pump

DW Mills... - US Patent 5,651,302, 1997 - Google Patents
... automation, havmg a deslSn Plurahtv of de^gnedly different **parallel mechanism** control
and ... The first-cylinder fluid represented by a small **coil spring** that is ...
[Cited by 1](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Key authors: [L Hendricks](#) - [E Rivin](#)

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"parallel mechanism" spring substitute

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[PDF] ► [Holonomic omni-directional vehicle with new omni-wheel mechanism](#)

R Damoto, W Cheng, S Hirose - IEEE International Conference on Robotics and Automation, 2001 - inf.fu-berlin.de

... chains via axle receiving units that **substitute** for chain ... of the Omni-Disc constitute a kind of **parallel mechanism**. ... the Omni-Disc is a leaf **spring** that allows ...

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[Kinematic decoupling in mechanisms and application to a passive hand controller design-](#)

► [mcgill.ca](#) [PDF]

V Hayward, C Nemri, X Chen, B Duplat - Journal of Robotic Systems, 1993 - interscience.wiley.com

... obtained from a mechanism in general and a **parallel mechanism** in particular ... By construction, the contribution of the **springs** to joint forces ... we **substitute** for h ...

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[Fundamental mechanism of dinosaur-like robot TITRUS-II utilizing coupled drive](#)

K Takita, R Hodoshima, S Hirose - 2000 IEEE/RSJ International Conference on Intelligent Robots ..., 2000 - ieeexplore.ieee.org

... This means that they try to realize the behavior "walking". However, the ultimate purpose of developing these robots is to create **substitute** labor. ...

Cited by 12 - [Related articles](#) - [Web Search](#)

[Kinematic calibration of the parallel Argos mechanism](#)

P Vischer, R Clavel - Robotica, 2001 - Cambridge Univ Press

... Typical representatives of **parallel mechanism** are the famous Delta robot 2 or a novel parallel wrist mechanism called Argos 3 shown in Figure 1. The Argos ...

Cited by 1 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 4 versions

[Basic concept and mechanical design of dinosaur-like robot TITRUS-II](#)

K Takita, R Hodoshima, S Hirose - Industrial Electronics Society, 2000. IECON 2000. 26th ..., 2000 - ieeexplore.ieee.org

... This means that they try to realize the behavior of "walking". However, the ultimate purpose of developing these robots is to create **substitute** labor. ...

[Web Search](#) - [BL Direct](#)

[Development of miniature dinosaur-like robot TITRUS-III](#)

K Takita, T Katayama, S Hirose - 2001 IEEE/RSJ International Conference on Intelligent Robots ..., 2001 - ieeexplore.ieee.org

... This means that they try to realize the behavior "walking". However, the ultimate purpose of developing these robots is to create **substitute** labor. ...

[Web Search](#)

[PDF] ► [Dynamics and control of parallel manipulators with actuation redundancy](#)

C Hui - 2001 - citeseerx.ist.psu.edu

... control methods were employed to a direct drive **parallel mechanism** with redundant ... are of the same type and the **spring** constants associated with all the drive ...

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Suppression of oxidative damage by *Saccharomyces cerevisiae* ATX2, which encodes a manganese- ... - ► [nih.gov](#) [PDF]

SJ Lin, VC Culotta - Molecular and Cellular Biology, 1996 - Am Soc Microbiol

... These liquids tests were a more quantitative **substitute** for plate assay measurements of total growth and were not employed for measurements of cell doubling ...

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FIG. 1J

US Patent 3,635,111, 1972 - Google Patents

... **substitute** for apertures or slits 42 is that ... Suitable **springs** are provided to bias the tools ... or another suitable prime controlled by **parallel mechanism** so that ...

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APPARATUS FOR MAKING PERFORATIONS IN CORRUGATED TUBES

US Patent 3,620,115, 1971 - Google Patents

... An advantage of discrete apertures as a **substitute** for apertures or slots 42 is that the chips or fragments of plastic material which are 35 removed from ...

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Key authors: [S Hirose](#) - [V Hayward](#) - [K Takita](#) - [S Lin](#) - [C Nemri](#)

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Static balancing of spatial six-degree-of-freedom parallel mechanisms with revolute actuators

CM Gosselin, J Wang - Journal of Robotic Systems, 2000 - interscience.wiley.com

... approach for the static balancing of planar linkages using **springs** has been ... As mentioned above, a statically balanced **parallel mechanism** is one in which the ...

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Geometric analysis of antagonistic stiffness in redundantly actuated parallel mechanisms

BJ Yi, RA Freeman - Journal of Robotic systems, 1993 - interscience.wiley.com

... illustrated here in terms of a "fully **parallel**" **mechanism** consisting of ... Now, an **alternate** expression of eq. ... behavior can be modeled as a **spring** action with ...

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GA Pratt, MM Williamson - Proceedings of the IEEE/RSJ International Conference on ..., 1995 - cs.cmu.edu

... direct drive is a feasible **alternative** for industrial ... mented Compliant Wrist Using a **Parallel Mechanism**", Japan/USA ... Robotics Research, V6, N1, **Spring** 1987 pp 3 ...

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Soluble surface proteins from Helicobacter pylori activate monocytes/macrophages by ...-

[► nih.gov \[PDF\]](#)

UE Mai, GI Perez-Perez, LM Wahl, SM Wahl, MJ ... - Journal of Clinical Investigation, 1991 -

pubmedcentral.nih.gov

Page 1. Soluble Surface Proteins from Helicobacter pylori Activate Monocytes/ Macrophages by Lipopolysaccharide-independent Mechanism ...

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PARALLEL MECHANISM

JO Lenz - US Patent 3,640,231, 1972 - Google Patents

... ment of the **parallel mechanism** toward and away from the 30 ... **spring** inside of cover member 76 acting upon a ... a preferred embodiment and one **alternate** construction ...

Cited by 1 - [Related articles](#) - [Web Search](#) - All 2 versions

Glucose repression in fungi

H Ronne - Trends in Genetics, 1995 - Elsevier

... The cAMP pathway ble **alternative** mechanism for glucose ... both by Mig1 and by a second, **parallel, mechanism**. ... 1 Magasanik, B. (1961) Cold **Spring** Harbor Symp. ...

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RCC characteristics of planar/spherical three degree of freedom parallel mechanisms with joint

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WK Kim, JY Lee, BJ Yi - Intelligent Robots and Systems' 96, IROS 96, Proceedings of ..., 1996 - ieeexplore.ieee.org

... An **alternative** planar configuration with more adjustable ... by the same number of linear **springs**. ... planar three degree-of-freedom **parallel mechanism** which consists ...

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Key authors: B Yi - G Pratt - U Mai - H Ronne - L Araujo

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Static balancing of spatial six-degree-of-freedom parallel mechanisms with revolute actuators

CM Gosselin, J Wang - Journal of Robotic Systems, 2000 - interscience.wiley.com

... approach for the static balancing of planar linkages using **springs** has been ... As mentioned above, a statically balanced **parallel mechanism** is one in which the ...

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GA Pratt, MM Williamson - Proceedings of the IEEE/RSJ International Conference on ..., 1995 - cs.cmu.edu

... direct drive is a feasible **alternative** for industrial ... mented Compliant Wrist Using a **Parallel Mechanism**", Japan/USA ... Robotics Research, V6, N1, **Spring** 1987 pp 3 ...

Cited by 244 - [Related articles](#) - [Web Search](#) - [All 7 versions](#)

Compliant constant-force mechanism and devices formed therewith

A Midha, MD Murphy, LL Howell - US Patent 5,649,454, 1997 - Google Patents

... body model in which each compliant segment is modeled as two rigid segments interconnected by a torsion **spring**. ... An in-**parallel mechanism** such as that of FIG. ...

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Kinematic decoupling in mechanisms and application to a passive hand controller design-

[►mcgill.ca](#) [\[PDF\]](#)

V Hayward, C Nemri, X Chen, B Duplat - Journal of Robotic Systems, 1993 - interscience.wiley.com

... Another **alternative** for realizing a given stiffness is ... fitted with individual return **springs**, possibly dampers ... in general and a **parallel mechanism** in particular ...

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Glucose repression in fungi

H Ronne - Trends in Genetics, 1995 - Elsevier

... The cAMP pathway ble **alternative** mechanism for glucose ... both by Migl and by a second, **parallel, mechanism**. ... 1 Magasanik, B. (1961) Cold **Spring** Harbor Symp. ...

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PARALLEL MECHANISM

JO Lenz - US Patent 3,640,231, 1972 - Google Patents

... An **alternative** BACKGROUND OF INVENTION range of movement ... much as 20 means urging the **parallel mechanism** in one ... aforesaid **spring** means and thus the bias force ...

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Latch mechanism for a circuit breaker

DR Venzke, TI Hood, JL Miller - US Patent 5,444,423, 1995 - Google Patents

... manufacturing and assembly, and cations and **alternative** forms, specific ... a latch 10, a latch **spring** 12, and ... A pair of **parallel mechanism** frame 25 sides 24 house ...

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A five-bar finger mechanism involving redundant actuators: analysis and its applications

BJ Yi, SR Oh, IH Suh - IEEE Transactions on Robotics and Automation, 1999 - ieeexplore.ieee.org

... potential input locations in structurally **parallel mechanism** or closed ... under force equilibrium, a **spring**-like behavior ... An **alternative** form of (43) is given in a ...

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... - [psu.edu](#) (PDF)

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... An **alternative** planar configuration with more adjustable ... by the same number of linear **springs**. ... planar three degree-of-freedom **parallel mechanism** which consists ...

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Analysis of a planar 3 degree-of-freedom adjustable compliance mechanism

WK Kim, DG Kim, BJ Yi - Journal of Mechanical Science and Technology, 1996 - Springer

... 2. Compliance Characteristics of a Planar 3-DOF **Parallel Mechanism** ... 30 0 ", 30 o).

As an **alternative** way, a ... compliance effect, a passive coil **spring**, a rubber ...

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Key authors: [G Pratt](#) - [H Ronne](#) - [M Williamson](#) - [S Grinstein](#) - [A Rothstein](#)

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"stewart platform" suspension

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Direct kinematic solution of a **Stewart platform**

P Nanua, KJ Waldron, V Murthy - IEEE Transactions on Robotics and Automation, 1990 - [ieeexplore.ieee.org](#)

... 4. AUGUST 1990 Direct Kinematic Solution of a **Stewart Platform** PRABJOT NANUA, KENNETH

J. WALDRON, AND VASUDEVA MURTHY ... The **Stewart platform** [2], shown in Fig. ...

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The NIST robocrane

J Albus, R Bostelman, N Dagalakis - Journal of Robotic Systems, 1993 - [interscience.wiley.com](#)

... These concepts utilize the basic idea of the **Stewart platform** parallel link manipulator ...

1. Design concept for improving stiffness of crane **suspension** mechanisms ...

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[CITATION] A Robotic Crane System Utilizing the **Stewart Platform** Configuration

R Bostelman, N Dagalakis, J Albus - Robotics and manufacturing: recent trends in research, ..., 1992 - American Society of Mechanical Engineers

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[PDF] ► [Applications of the NIST RoboCrane](#)

R Bostelman, J Albus, N Dagalakis, A Jacoff, J ... - Proc. of the 5 th International Symposium on Robotics and ..., 1994 - [isd.cme.nist.gov](#)

... have proved much of the theory and performance of a **Stewart Platform** parallel link ...

Since the work platform needs only three **suspension** points for the six cables ...

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Stability of an underwater work platform suspended from an unstable reference- ► [psu.edu](#)

[PDF]

RV Bostelman, JS Albus - OCEANS'93.'Engineering in Harmony with Ocean'. Proceedings, 1993 - [ieeexplore.ieee.org](#)

... If very deep **Stewart Platform** applications are necessary, two scenarios are possible:

1 ... cylinder projected below the upper platform cable **suspension** lines and ...

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Conditions for line-based singularities in spatial platform manipulators

F Hao, JM McCarthy - Journal of Robotic Systems, 1998 - [interscience.wiley.com](#)

... supporting chain. These conditions are satisfied by many manipulator systems, particularly those based on the **Stewart platform**. A ...

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The experimental performance of a mobile manipulator control algorithm- ► [mit.edu](#) [PDF]

NAM Hootsmans, S Dubowsky, PZ Mo - 1992 IEEE International Conference on Robotics and ..., 1992 - [ieeexplore.ieee.org](#)

... kv and bv are, respectively, the stiffness and damping of the vehicle **suspension**. ...

8. The VES is a six DOF hydraulically actuated **Stewart platform** developed for ...

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... 4. AUGUST 1990 Direct Kinematic Solution of a **Stewart Platform** PRABJOT NANUA, KENNETH

J. WALDRON, AND VASUDEVA MURTHY ... The **Stewart platform** [2], shown in Fig. ...

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... kv and bv are, respectively, the stiffness and damping of the **vehicle suspension**. ...

between the manipulator and its (emulated) **vehicle**, the **Stewart platform**. ...

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Experimental simulation of manipulator base compliance- ► [mit.edu](#) [PDF]

H West, N Hootsmans, S Dubowsky, N Stelman - Experimental Robotics I, 1990 - Springer

... arbitrary trajectory on the base of a manipulator Emulate the weightlessness of

a manipulator free floating in space Emulate a **vehicle suspension** including its ...

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A driving simulator as a virtual reality tool

WS Lee, JH Kim, JH Cho - 1998 IEEE International Conference on Robotics and ..., 1998 - [ieeexplore.ieee.org](#)

... drives a 6 degree-of-freedom **Stewart platform** for creating ... study for systematic

development of the **vehicle** models. For chassis and **suspension** motion, both a 16 ...

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The NIST robocrane

J Albus, R Bostelman, N Dagalakis - Journal of Robotic Systems, 1993 - [interscience.wiley.com](#)

... for improving stiffness of crane **suspension** mechanisms ... was first embodied in a **Stewart**

platform for testing ... Coordination of **vehicle** track motions to accomplish ...

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[CITATION] The Kookmin University driving simulators for **vehicle** control system development and human factor ...

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[PDF] ► [Applications of the NIST RoboCrane](#)

R Bostelman, J Albus, N Dagalakis, A Jacoff, J ... - Proc. of the 5 th International Symposium on Robotics and ..., 1994 - [isd.cme.nist.gov](#)

... gantry, containing three upper **suspension** points for ... If very deep **Stewart Platform**

applications are necessary, two ... possible: 1) a subsea **vehicle** could suspend ...

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Operational envelopes for working bodies of mechanisms and manipulators

EJ Haug, FA Adkins, CM Luh - Journal of mechanical design, 1998 - link.aip.org

... Examples involving a planar **Stewart platform** with a dome attached and the wheel assembly of a **vehicle suspension** system in three dimensions are analyzed ...

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[citation] Emulating micro-gravity in laboratory studies of space robotics

TRJ Corrigan, S Dubowsky - Robotics: kinematics, dynamics and controls: presented at ..., 1994 - American Society of Mechanical Engineers

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... 4. AUGUST 1990 Direct Kinematic Solution of a **Stewart Platform** PRABJOT NANUA, KENNETH

J. WALDRON, AND VASUDEVA MURTHY ... The **Stewart platform** [2], shown in Fig. ...

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... drives a 6 degree-of-freedom **Stewart platform** for creating ... study for systematic

development of the vehicle models. For chassis and **suspension** motion, both a 16 ...

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... arbitrary trajectory on the base of a manipulator Emulate the weightlessness of

a manipulator free floating in space Emulate a vehicle **suspension** including its ...

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[CITATION] The Kookmin University driving simulators for vehicle control system development and human factor ...

WS Lee, JH Kim, JH Cho, SJ Lee - Driving Simulation Conference, 1999

Cited by 15 - [Related articles](#) - [Web Search](#) - [Library Search](#)

A study of the effects of the lower index methods on ADAMS sparse tableau formulation for the

... NV Orlandea - Proceedings of the Institution of Mechanical Engineers, Part ..., 1999 - Prof Eng Publishing

... The second example is an **automotive** five-link independent rear **suspension** as

represented in Fig. ... Fig. 8 Five-link rear car **suspension** K01099 # IMechE 1999 ...

Cited by 5 - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

A new analytical system applying 6 DOF parallel link manipulator for evaluating motion sensation

N Mimura, Y Funahashi - 1995 IEEE International Conference on Robotics and ..., 1995 - [ieeexplore.ieee.org](#)

... Some improvements are reported over the original **Stewart platform** [5],[6], but ...

up an experimental method with high virtual reality using no real vehicle. ...

Cited by 5 - [Related articles](#) - [Web Search](#) - [BL Direct](#)

On the cable car feed support configuration for FAST

R Gexue, L Qiuhai, Z Zhou - Astrophysics and Space Science, 2001 - Springer

... Parallel **suspension** and driving cables are arranged for ... The proposed cable-car

configuration separates the ... The **Stewart platform** (Stewart, 1965) has proved to ...

[Cited by 1](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 4 versions

Conditions for line-based singularities in spatial platform manipulators

F Hao, JM McCarthy - Journal of Robotic Systems, 1998 - interscience.wiley.com

... manipulating an object, 2 and special systems such as vehicle simulator platforms. ...

Figure 1. The **Stewart platform** is an example of a platform manipulator. ...

[Cited by 49](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 2 versions

Operational envelopes for working bodies of mechanisms and manipulators

EJ Haug, FA Adkins, CM Luh - Journal of mechanical design, 1998 - link.aip.org

... Examples involving a planar **Stewart platform** with a dome attached and the wheel

assembly of a vehicle **suspension** system in three dimensions are analyzed ...

[Cited by 7](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 3 versions

Key authors: [P Nanua](#) - [K Waldron](#) - [V Murthy](#) - [J Albus](#) - [R Bostelman](#)

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"stewart platform" automobile spring

1970

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[PDF] ► [Modeling, simulation, and control of a hydraulic **Stewart platform**](#)

D Li, SE Salcudean - IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION, 1997 - ece.ubc.ca

... of a Hydraulic **Stewart Platform** D. Li and SE Salcudean ... The dynamic equations of the **Stewart platform** are derived using the virtual work principle. ...

Cited by 39 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - All 4 versions

[Experimental study of motion control and trajectory planning for a **Stewart Platform** robot manipulator](#)

CC Nguyen, SS Antrazi, ZL Zhou, CE Campbell Jr - 1991 IEEE International Conference on Robotics and ..., 1991 - ieeexplore.ieee.org

... Six **spring**-loaded pistons arranged also in a geometry similar to the **Stewart Platform** mech- anism are used to suspend the lower compliant plat- form from the ...

Cited by 12 - [Related articles](#) - [Web Search](#)

[PDF] ► [Force guided assemblies using a novel parallel manipulator](#)

DM Morris, R Hebbar, WS Newman - IEEE International Conference on Robotics and Automation, 2001 - vorlon.cwru.edu

... difficult mechanical assemblies within an **automotive** transmission ... pairs, like the Modified **Stewart Platform**, to increase ... of the vertical virtual **spring**; 2) the ...

Cited by 7 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 6 versions

[Stewart-platform-based inlet duct painting system](#)

K Liu, R Glenn, TJ Lawley, FL Lewis - 1993 IEEE International Conference on Robotics and ..., 1993 - ieeexplore.ieee.org

... isolated subsystems: the mobile base, the **Stewart platform**, and the ... It can **auto**-matically navigate in an inlet ... a rather ingenious design of **springs** and levers ...

Cited by 3 - [Related articles](#) - [Web Search](#) - [BL Direct](#)

[Kinetostatic modeling of N-DOF parallel mechanisms with a passive constraining leg and prismatic ...](#)

D Zhang, CM Gosselin - Journal of Mechanical Design, 2001 - link.aip.org

... platform known as the "Gough-**Stewart**" **platform** was introduced ... stiffness of the virtual **springs** is determined ... Papers on Research in **Automobile** Stability and ...

Cited by 21 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 3 versions

[PDF] ► [A coarse-fine approach to force-reflecting hand controller design](#)

L Stocco, SE Salcudean - IEEE International Conference on Robotics and Automation, 1996 - ece.ubc.ca

... ranging from 1 to 10 N/mm and the same **spring** with a braking ... in terms of their complexity and workspace; a prismatically actuated "**Stewart**" **platform** [7], a ...

Cited by 21 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - All 3 versions

[Tetrobot: A modular approach to parallel robotics](#)

GJ Hamlin, AC Sanderson - IEEE Robotics & Automation Magazine, 1997 - ieeexplore.ieee.org

... 0 1 7 Double **Stewart Platform** 0 2 7 3-2-1 **Stewart Platform** 3 0 0.6 ... The **spring** characteristics are chosen so that they tend to keep the actuators within their ...

Cited by 36 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 2 versions

Architecture singularities of platform manipulators

O Ma, J Angeles - 1991 IEEE International Conference on Robotics and ..., 1991 - ieeexplore.ieee.org

Page 1. Proceedings of the 1991 IEJ3E International Conference on Robotics and Automation Sacramento, California - April 1991 Architecture ...

Cited by 83 - [Related articles](#) - [Web Search](#)

KAIST interactive bicycle simulator- ► dryoo.net [PDF]

DS Kwon, GH Yang, CW Lee, JC Shin, Y Park, B Jung, ... - IEEE International Conference on Robotics and Automation, ..., 2001 - ieeexplore.ieee.org

... Various vehicle simulators such as **automobile**, bicycle, flight ... digital servo control of the **Stewart platform** have been ... model the tire as a **spring**-damper system ...

Cited by 19 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 15 versions

[PDF] ► Development of the NIST Robot Crane Teleoperation Controller

NG Dagalakakis, JS Albus, RV Bostelman, J Fiala - Robotics and Remote Handling Proceedings, Fifth Topical ..., 1993 - citeseerx.ist.psu.edu

... The joystick was another small size **Stewart platform** mechanism shown ... applied to a steel leaf **spring** plate mounted ... this case is similar to an **automobile** throttle ...

Cited by 5 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - All 7 versions

Key authors: [J Albus](#) - [S Salcudean](#) - [D Li](#) - [O Ma](#) - [G Hamlin](#)

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"stewart platform" "coil spring"

1970

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Tip: Try removing quotes from your search to get more results.

Haptic pointing devices

D Haanpaa, G Siebert, T Cussen, K Fifer, M ... - US Patent App. 09/761,463, 2001 - Google Patents

... feed through a hollow universal joint (implemented with a **coil spring**) Stylus or ...

is a drawing used to introduce and illustrate a "**Stewart platform**," forming a ...

Cited by 2 - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

Analysis of a planar 3 degree-of-freedom adjustable compliance mechanism

WK Kim, DG Kim, BJ Yi - Journal of Mechanical Science and Technology, 1996 - Springer

... proposes a compliance device which uses the shape of **Stewart platform** mechanism

that ... To obtain a passive compliance effect, a passive **coil spring**, a rubber, a ...

Cited by 1 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

book: Stiffness and damping in mechanical design

EI Rivin - 1999 - books.google.com

Page 1. EUGENE I. R1V1N Page 2. Page 3. Page 4. Page 5. Stiffness and Dampin

in Mechanics Design This One 4ECR-G5F-S1BW Page 6. Page 7. ...

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Key authors: [E Rivin](#)

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Tip: Try removing quotes from your search to get more results.

[Geometric analysis of antagonistic stiffness in redundantly actuated parallel mechanisms](#)

BJ Yi, RA Freeman - Journal of Robotic systems, 1993 - interscience.wiley.com

... Hogan2' modeled equilibrated axes consisting of passive springs and discussed the concept of open-loop disturbance rejection and nonlin- ear **spring design**. ...

Cited by 23 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 3 versions](#)

[Static balancing of 3-DOF planar parallel mechanisms](#)

T Laliberte, CM Gosselin, M Jean - IEEE/ASME transactions on mechatronics, 1999 - ieeexplore.ieee.org

Page 1. IEEE/ASME TRANSACTIONS ON MECHATRONICS, VOL. 4, NO. 4, DECEMBER 1999

363 Static Balancing of 3-DOF Planar Parallel Mechanisms ...

Cited by 24 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 2 versions](#)

[bookj Robotics and manufacturing: recent trends in research, education, and applications: proceedings of ...](#)

M Jamshidi - 1992 - American Society of Mechanical Engineers

[Web Search](#) - [Library Search](#)

[Development and demonstration of a teleoperated modular robot system. Bi-monthly progress report, ...](#)

S Tosunoglu, D Tesar - 1992 - osti.gov

... architecture for active **spring design**. ... A redundantly actuated **Stewart platform**-type manipulator has been studied as an illustrative example. ...

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[Development and demonstration of a teleoperated modular robot system](#)

S Tosunoglu, D Tesar - 1992 - osti.gov

... architecture for active **spring design**. ... A redundantly actuated **Stewart platform**-type manipulator has been studied as an illustrative example. ...

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[bookj Fundamentals of robotics](#)

DD Ardayflo - 1987 - books.google.com

... **Spring Design** with an IBM PC, by AI Dietrich Mechanical Design Failure Analysis: With Failure Analysis System ... **Stewart Platform** Based on Regular Octahedron ...

Cited by 8 - [Related articles](#) - [Web Search](#) - [Library Search](#)

Key authors: [B Yi](#) - [T Laliberte](#) - [R Freeman](#) - [C Gosselin](#) - [M Jean](#)

"stewart platform" "spring design"



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[PDF] ► [Design, control and energy minimization strategies for the ARL Monopod](#)

P Gregorio - 1994 - citeseerx.ist.psu.edu

Page 1. Design, Control and Energy Minimization Strategies for the ARL Monopod

Pedro Gregorio TR-CIM-94-09 September 1994 Ambulatory ...

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[Magnetostrictive actuator](#)

CH Joshi, BR Bent - US Patent 6,246,132, 2001 - [Google Patents](#)

Page 1. US006246132B1 (12) United States Patent Joshi et al. (io) Patent

No.: US 6,246,132 B1 (45) Date of Patent: Jun. 12, 2001 (54 ...

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"stewart platform" spring substitute

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Exact methods for determining the kinematics of a **Stewart platform** using additional displacement ...

KC Cheok, JL Overholt, RR Beck - Journal of Robotic Systems, 1993 - interscience.wiley.com

Page 1. Exact Methods for Determining the Kinematics of a **Stewart Platform** Using ...

The configuration of a **Stewart platform** (SP) supporting a Crew station/ ...

Cited by 30 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 2 versions

Design analysis of a **Stewart platform** for vehicle emulator systems- ► [mit.edu](#) [PDF]

H West, Y Gong - 1992 - dspace.mit.edu

DESIGN ANALYSIS OF A **STEWART PLATFORM** FOR VEHICLE EMULATOR SYSTEMS by ... ARC-JI ...

Page 2. DESIGN ANALYSIS OF A **STEWART PLATFORM** FOR VEHICLE EMULATOR SYSTEMS by ...

Cited by 1 - [Related articles](#) - [Web Search](#) - [Library Search](#) - All 2 versions

A new method for solving the direct kinematics of general 6-6 Stewart platforms using three linear ...- ► [etsmtl.ca](#) [PDF]

IA Bonev, J Ryu - Mechanism and machine theory, 2000 - Elsevier

... DOF parallel manipulator, also called a **Stewart Platform** (SP), consists ... roots of

this polynomial, we **substitute** for each ... is guaranteed by a **spring** connected to ...

Cited by 18 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 6 versions

Active system for vibration isolation of spacecraft instruments

EH Anderson, DJ Leo, MD Holcomb - ADVANCES IN THE ASTRONAUTICAL SCIENCES, 1996 -

csaengineering.com

... over almost directly to the **Stewart platform** system. ... include: modifications to the

actuator **spring**; further multi ... delivery, the UQP will **substitute** in defining ...

Cited by 6 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 2 versions

Kinematic decoupling in mechanisms and application to a passive hand controller design- ► [mcgill.ca](#) [PDF]

V Hayward, C Nemri, X Chen, B Duplat - Journal of Robotic Systems, 1993 - interscience.wiley.com

... By construction, the contribution of the **springs** to joint forces is $h = K p$ (3)

with K diagonal. ... we **substitute** for h, and p in (2) and (3): $w = JTKJ x$ (4) ...

Cited by 15 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - All 8 versions

[PDF] ► Development of design equations for self-deployable n-strut tensegrity systems

IP Stern - 1999 - citeseerx.ist.psu.edu

... platforms. Page 8. 3 The n-strut tensegrity is studied by rotating the top platform

of a **Stewart platform** to ... based on a **spring** constant. This ...

Cited by 20 - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - All 5 versions

Transient dynamics of a lightly damped, roll-forced pendulum

MD Todd, ST Vohra - Dynamical Systems, 1998 - informaworld.com

... We **substitute** equation (6) and its appropriate ... and-pendulum system was placed upon

the **Stewart platform**. ... displacement was achieved through **spring**-loaded cables ...

Cited by 1 - [Related articles](#) - [Web Search](#) - [BL Direct](#)

Kinematic calibration of the parallel Argos mechanism

P Vischer, R Clavel - Robotica, 2001 - Cambridge Univ Press
... internal transducers of the mechanism. They applied their method to a **Stewart Platform**, too. Special measurement sets were acquired ...
Cited by 1 - Related articles - Web Search - BL Direct - All 4 versions

[PDF] ► [Kinematic design of an ophthalmic surgery robot and feature extracting bilateral manipulation](#)

KW Grace - 1995 - lms.mech.northwestern.edu
... the physical design of a **Stewart Platform** can be divided into two classes: (1) legs either pull or push against an antagonistic force (ie a **spring** pushes the ...
Cited by 11 - Related articles - View as HTML - Web Search - Library Search - All 4 versions

[Table online neural control of systems with closed kinematic chains](#)

MJ Randall, AFT Winfield, AG Pipe - IEE Proceedings-Control Theory and Applications, 2000 - ieeexplore.ieee.org
... to adapt to the presence of a nonlinear elastic **spring** attached to ... of systems represented by the hexapod, which includes the **Stewart platform** (also sometimes ...
Cited by 2 - Related articles - Web Search - BL Direct - All 2 versions

Key authors: [K Cheok](#) - [J Overholt](#) - [R Beck](#) - [I Bonev](#) - [I Stern](#)

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parallel platform suspension

1950

- 2001

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Controllable **platform suspension** system for treadmill decks and the like and devices therefor

RS Gureghian, JD Carlson, DF LeRoy, RH Marjoram, ... - US Patent 5,993,358, 1999 - Google Patents

 ... The controllable **platform suspension** system 20a described herein ... A controllable **suspension** system 20a flexibly suspends ... 42a is attached in **parallel** spring 25 ...

 Cited by 12 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Platform type weighing scale

MA Provi, SR Guinter - US Patent 4,023,634, 1977 - Google Patents

 ... respectively nonro- 50 and second relatively **parallel** torque members ... said first and second ble base **suspension** member and a flexible **platform** torque members ...

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SUSPENSION-TYPE STRAIN GAGE TRANSDUCER STRUCTURE

E LAIMINS - US Patent 3,512,595, 1970 - Google Patents

 ... stable **platform suspension** which both resists lateral dis -placements ... incorporates a load-carrying **platform** 35 r ... improved by separating the **parallel** upper and ...

 Cited by 20 - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

WHEELED COASTING DEVICE

P Cudmore - US Patent 3,795,409, 1974 - Google Patents

 ... has an approximately 90° twist therein, said **suspension** arm portion having its major horizontal dimension **parallel** to the front of said **platform** at its upper ...

 Cited by 11 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[PDF] ► Optimum Stiffness Study for a **Parallel** Link Robot Crane Under Horizontal Force

J Unger, NG Dagalakis, TM Tsai, JD Lee - Proceedings of the Second International Symposium on ..., 1988 - isd.mel.nist.gov

 OPTIMUM STIFFNESS STUDY FOR A **PARALLEL** LINK ROBOT CRANE UNDER ... side of the equilateral triangle formed by the three **suspension** points of the lower **platform**. ...

 Cited by 8 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

HARVESTER PLATFORM SUSPENSION AND LINKAGE SYSTEM

US Patent 3,783,594, 1974 - Google Patents

 ... 'n **parallel** relations spaced ... 40 ter line 36 of the **platform**. ... 3 and 5. The invention provides an improved **suspension** and In addition to a cutter assembly shown ...

 Cited by 5 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

The NIST robocrane

J Albus, R Bostelman, N Dagalakis - Journal of Robotic Systems, 1993 - interscience.wiley.com

 ... wherein the cables and potentiometers remain roughly **parallel**, the ROBOCRANE ... those poses of the robot lower **platform** at which ... in one or more of the **suspension** ...

 Cited by 153 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 3 versions](#)

Parallel multipole BEM simulation of two-dimensional **suspension** flows

AA Mammoli, MS Ingber - Engineering Analysis with Boundary Elements, 2000 - Elsevier

 Page 1. **Parallel** multipole BEM simulation of two-dimensional **suspension** flows

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US Patent 3,808,781, 1974 - Google Patents

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P Nanua, KJ Waldron, V Murthy - IEEE Transactions on Robotics and Automation, 1990 - ieeexplore.ieee.org

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parallel platform automobile suspension

1950

- 2001

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Adjustable support device for a vehicle

HC Staples - US Patent 3,355,136, 1967 - Google Patents

 ... device in engagement with the bumper of an **automobile**, shown in ... axis of the hole is in a 25 plane **parallel** to the projection in plan of the **platform** and is ...

 Cited by 11 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Automobile passenger comfort assured through LQG/LQR active **suspension**- ► psu.edu

[PDF]

HD Taghirad, E Esmailzadeh - Journal of Vibration and Control, 1998 - jvc.sagepub.com

 ... For an **automotive suspension** this is achieved through a mechanical device called an active damper which is used in **parallel** to a conventional spring. The ...

 Cited by 26 - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 6 versions](#)

Model racing car having an improved rear wheel **suspension**

RW Raleigh - US Patent 4,159,126, 1979 - Google Patents

 ... at the front and rear of the car, respectively ... centerline Z axis, permit the mounting **platform** 19 to ... an axis of rotation extending generally **parallel** to the ...

 Cited by 5 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

MAGNETIC **SUSPENSION** SYSTEM

LWC Park - US Patent 3,589,300, 1971 - Google Patents

 ... 12 and 1 14 positioned about a vehicle 116 which ... tube provides the guide channel for the vehicles **platform** 1 10 ... coil was also placed near and **parallel** to the ...

 Cited by 13 - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

VEHICLE **SUSPENSION**

O Granning - US Patent 3,747,948, 1973 - Google Patents

 ... fastening guide structure about an axis **parallel** to the ... end of the **suspension**, said differences in vehicle frame sizes ... truck frame and a support **platform** 193 to ...

 Cited by 10 - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

Belted vehicle **suspension** system

RJ Purcell - US Patent 4,923,257, 1990 - Google Patents

 ... portion 56, first and second spaced apart **parallel** wheels hub ... a load 96 is applied to the **platform** 94, and ... necessary for efficient operation of the vehicle 10. ...

 Cited by 8 - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

[CITATION] **Platform** and modular concepts at volkswagen-their effect on the assembly process

 B Wilhelm - Transforming **automobile** assembly: experience in automation ..., 1997 - Springer Verlag

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Vehicle **suspension** and steerage system

JL Grove, JL Hockensmith, AB Coffman - US Patent 4,534,575, 1985 - Google Patents

 ... are mounted in a tandem and **parallel** relationship. ... enhances safety in operation of the vehicle or work ... either direction to pivot the steering **platform** levers 54 ...

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Cam operated vehicle **suspension** system

LJ Holt - US Patent 5,839,742, 1998 - Google Patents

... ti°n- arm, into linear movement **parallel** to the ... ring and each energy storage medium **platform** independently of ... wheel and hub assembly and the vehicle body to ...Cited by 4 - [Related articles](#) - [Web Search](#) - All 2 versionsA new analytical system applying 6 DOF **parallel** link manipulator for evaluating motion sensationN Mimura, Y Funahashi - 1995 IEEE International Conference on Robotics and ..., 1995 - [ieeexplore.ieee.org](#)... are reported over the origi- nal Stewart **platform** [5],[6 ... method with high virtual reality using no real vehicle. ... is made up of 6 DOF **parallel** link mechanism ...Cited by 5 - [Related articles](#) - [Web Search](#) - [BL Direct](#)Key authors: [H Taghirad](#) - [B Wilhelm](#) - [P Nanua](#) - [E Esmailzadeh](#) - [K Waldron](#)

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... are ineffec- tive below the **suspension** frequencies of ... neuvering loads in a vehicle,
and t,hen ... Fully **active** isolation systems introduce fundamental advan- tages ...

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... using a cardanic **suspension** or a **Stewart platform** will be ... they are used in the
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... valve levers to control the three **active** DOFs of ... pension hooks with respect to the **suspension** lugs must ... Number BA40105, manufactured by Lucas **Automotive** Sensors ...

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... Disc, its alignment is kept constant by the **parallel mechanism**. ... the motions of a differential drive vehicle (shown in ... (a) Bottom view of the **active** Omni-Disc ...

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... it is yet imaginable to perform **active** locomotion, which ... 7), the vehicle has one wheel mounted on a ... any time and its particular **parallel mechanism** produce an ...

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... the environment surrounding the car using onboard ... analysis for the fully **parallel mechanism** (eg, given ... in mechanized assembly, and in **active** vibration control. ...

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... through the hyperaccumulation of redox-**active** copper ions ... Double-stranded DNA sequencing was carried out by the ... cushion and were lysed by **suspension** in 5.0 ...

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... of the Space Test Research **Vehicle** (STRV)-2 ... over almost directly to the **Stewart platform** system ... more conventional architecture of a parallel **active-passive** system ...

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... rotates around the center of the Omni-Disc, its alignment is kept constant by the **parallel mechanism**. Thus, when the direction of the **chassis** changes suddenly ...

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... in the electrical circuit of the machine that two sides of the **chassis** 10, then the ...

7 8 fluid from both pumps 22 and 24 operating in **parallel mechanism** of this ...

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... **parallel mechanism** for light weight The less the weight of master arm, surely the better ... of a UNIX host machine and target CPU board within a VMEbus **chassis**. ...

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... 8. The wrist subsystem of the UPSarm consists of two in-par-allel actuators; it is quite different in design from the **parallel mechanism**, investigated by Hunt ...

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[REPEAT MAGNETIC TAPE MACHINE](#)

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... 7. It has a rectangular **chassis** or frame 10 on the front portion of which are ... When the button 71 is released the **parallel mechanism** is restored to its initial ...

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... 0 1 7 Double **Stewart Platform** 0 2 7 3-2-1 **Stewart Platform** 3 0 0.6 ... The **spring** characteristics are chosen so that they tend to keep the actuators within their ...

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... Various vehicle simulators such as **automobile**, bicycle, flight ... digital servo control of the **Stewart platform** have been ... model the tire as a **spring**-damper system ...

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